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MCO 3500.11E
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MARINE CORPS ORDER 3500.11E

From: Commandant of the Marine Corps
To: Distribution List

Subj: MARINE CORPS COMBINED ARMS EXERCISE (CAX) PROGRAM

Ref: (a) MCO P8011.4H
(b) MCO 3500.27
(c) MCO P3570.1A
(d) MCO P5090.2N
(e) MARADMIN 557/00
(f) MCO P3900.15
(g) MCO 3501.8A
(h) MCO P5311.1C

Encl: (1) CAX Program Training Goals
(2) Training Method, Level, Frequency and Critique
(3) Concept and Conduct of Aviation Support
(4) Concept and Conduct of Combat Service Support (CSS)

Report Required: Post Exercise Marine Corps CAX (Report
Control Symbol MC-3500-11)

1. Purpose. To publish guidance for the conduct of the CAX Program at Marine Air Ground Task Force Training Command (MAGTFTC), Twentynine Palms, California.

2. Cancellation. MCO 3500.11D.

3. Summary of Revision. This Order has been completely revised and should be reviewed in its entirety.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

5. Purpose

a. The CAX Program purpose is MAGTF training with a focus on fire support techniques and procedures performed in consonance with maneuver. Live fire training is the only means by which the Marine Corps can fully integrate the technical details of the

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MAGTF's elements and capabilities consistent with current doctrine and standards. Accordingly, the CG MAGTFTC is tasked, by mission statement, to conduct the Marine Corps' combined arms training program. The CAX is the venue by which this mission is achieved.

b. The CAX began as predominantly a fire support coordination exercise for the reinforced infantry battalion with the other elements of the MAGTF in support. Over the years, CAX has matured into a more fully integrated live fire environment, encompassing the leading capabilities resident in a MAGTF.

c. Consistent with the Commandant's vision, as stated in *United States Marine Corps Strategy 21*, CAX will continue to focus on integrating all capabilities of the MAGTF elements in a complex live fire environment. The combined arms live fire training emphasis will remain the development of techniques and procedures to plan and integrate all components of fires in consonance with maneuver.

6. CAX Program Mission. To conduct MAGTF training to achieve the integration of the four elements of the MAGTF, and their capabilities, in a realistic environment constructed around live-fire combined arms operations.

7. Core Competency. Combined Arms Readiness, as addressed in the *United States Marine Corps Strategy 21*, is the primary core competency for the Exercise Force to cultivate at CAX. The MAGTF will conduct combined arms readiness training, developing its ability to integrate the MAGTF's four elements through air and ground operations.

8. Exercise Force Competencies. The MAGTF will conduct deployment and force planning for essential warfighting capabilities; deploy tactical forces, planning and directing intelligence operations, fires (lethal and non-lethal), aviation operations, air and ground maneuver and sustainment operations in an expeditionary environment. Further, the MAGTF will exercise command and control (C2) within the four elements, encompassing the distinct and specialized functions of intelligence, fires (lethal and non-lethal), aviation operations, air and ground maneuver and sustainment operations, ensuring integration and synchronization in a combined arms battlespace.

9. CAX Training Goals. The Exercise Force will be organized to support combined arms training that emphasizes MAGTF component coordination and integration in a realistic live fire and maneuver environment. Specific training goals for each element of the Exercise Force MAGTF are listed in enclosure (1).

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10. Exercise Force Configuration. The Exercise Force MAGTF is uniquely configured for CAX to ensure the full spectrum of capabilities can be incorporated into training, and doctrinally integrated in an economic, yet functional, manner. Relative to a MAGTF composed around a reinforced infantry battalion, a greater number of artillery, aviation and other resources will be furnished providing the widest array of capabilities, further ensuring the integrated training of all assets resident within a MAGTF. The infantry regiment headquarters provides a functional MAGTF CE for the Exercise Force. However, it executes tactical actions, and command and control over ground combat units (artillery and infantry battalions) in a manner similar to its doctrinal role as the GCE of a Marine Expeditionary Brigade (MEB), or an infantry regiment as part of the Marine Division. This Exercise Force composition is exclusive to CAX and should not be misinterpreted as a description of a standard MAGTF.

11. Evaluation System. There are no formal evaluation requirements. However, all aspects of the live-fire CAX will be assessed and critiqued based on the MAGTF's ability to accomplish the training goals listed in enclosure (1) and those that are agreed upon at the Concept Development Conference (CDC). A structured debrief will be conducted upon conclusion of each event or exercise. An explanation of Training, Methodology, Level, Frequency and Critique are contained in enclosure (2).

12. Terms and Organizational Relationships

a. Exercise Control. The process of regulating, directing, and guiding the conduct of the exercise within prescribed limits, thus advocating the accomplishment of training goals. Safety remains the responsibility of commanders and exercise personnel at all levels.

b. Number and Sequence of Exercises. There will be 10 CAX's conducted within each fiscal year. Each CAX will be numbered consecutively in Arabic numerals (separated by a slant, if more than one exercise occurs back to back), followed by a dash and the fiscal year in Arabic numerals, e.g., CAX 1-00 or CAX 1/2-00.

c. Exercise Duration. The duration of the standard CAX is 22 days for active duty forces and 15 days for reserve component forces.

d. Dual CAX. A dual CAX comprises two CAX's conducted back to back by the same MAGTF Command Element.

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e. Officer Scheduling the Exercise (OSE). The OSE (COMMARFORLANT, COMMARFORPAC, COMMARFORRES) is responsible for designating forces to participate in a CAX, establishing the scope of the exercise, and defining command relationships.

f. Officer Conducting the Exercise (OCE). Designated by the OSE, the OCE is the senior officer in command of the MAGTF. The OCE will report to the CG MAGTFTC for exercise control.

g. Tactical Training and Exercise Control Group (TTECG). This is the organization under the command of the Tactical Exercise Controller that is formed to control and critique each exercise.

(1) Tactical Exercise Controller (TEC). Plans the exercise scenario and controls the environment, including scripting the operational forces to achieve established training objectives. The CG MAGTFTC has designated the director of TTECG as the TEC.

(2) Exercise Controllers. Individuals assigned by the OSE to augment and assist the TTECG staff with exercise control for a CAX. Controller augmentation requirements will be briefed to the OCE by the TEC at the CDC.

(3) Other Augments. Individuals temporarily assigned to support the TTECG staff. These individuals serve within the TTECG staff and assist in CAX training and exercise control. Billet descriptions, qualifications and training requirements will be briefed by the TEC at the CDC.

h. Exercise Support Division (ESD). Located at MAGTFTC, the ESD supports units participating in a CAX by providing services, and equipment through the Enhanced Equipment Allowance Pool (EEAP).

(1) Exercise Action Officer (EAO). An officer from ESD assigned to act as the POC for logistics and support matters for each CAX.

(2) EEAP. Equipment pre-positioned at MAGTFTC for use by the MAGTF during the CAX. The EEAP is comprised of major principle end items (PEI), including communications, engineering, general supply, motor transport, and ordnance equipment. The MAGTF will use the EEAP as their first source of equipment.

(3) Standard Equipment Density List (SEDL). A list of exercise essential PEIs in which intermediate maintenance (3d and 4th echelon) is Centralized CAX (CCAX) funded. The SEDL is primarily a budgetary parameter, and is not intended to represent

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an Exercise Force T/E. The Exercise Force may require additional PEIs, designated non-SEDL, to accomplish its CAX mission. The maintenance costs for these additional PEIs will be unit funded. The PEIs on the SEDL are typically drawn from the EEAP, however, any PEI not available from the EEAP may be provided by an external source. The SEDL is reviewed and published annually as a bulletin.

(4) Standard Equipment Package (SEP). PEIs from the SEDL that are available for issue from the EEAP. The SEP changes are promulgated at the IPC.

i. Exercise Support Base (ESB). The expeditionary rear area (Camp Wilson) utilized by the MAGTF while conducting CAX.

13. Responsibilities

a. CG TECOM will:

- (1) Be the Program Manager/Advocate for the CAX Program.
- (2) Publish the CAX Program Order.
- (3) Coordinate annual review of MCO and SEDL.
- (4) Publish annual SEDL Marine Corps bulletin.
- (5) Sponsor the annual CAX Conference hosted by the CG, MAGTFTC.

b. CG MAGTFTC will:

- (1) Conduct the CAX Program as directed by CG TECOM.
- (2) Host an annual CG TECOM sponsored CAX Conference.
- (3) Develop/coordinate the CAX schedule for the two successive fiscal years, ensuring representation from Marine Air Weapons and Tactics Squadron-1 and Marine Corps Mountain Warfare Training Center.
- (4) Publish a SOP covering the control, assessment, and critique criteria to be used for CAX.
- (5) Publish and distribute a CAX Bulletin to the exercise participants, the parent division, wing, and force service support group (FSSG), to include information on pre-CAX and post-CAX training events and activities.

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(6) Create the combined arms environment for testing techniques and procedures of fire support in consonance with maneuver.

(7) Create an environment in which innovative ideas may be tested under simulated combat conditions.

(8) Be responsible for exercise control of the CAX.

(9) Be responsible for establishing training objectives, methods and standards for participating CAX units to achieve the goals listed in enclosure (1).

(10) Organize TTECG Staff. Per the Table of Organization (T/O), organize and maintain a permanent TTECG staff. This staff will include expertise in the major occupational fields necessary to accomplish the CAX program mission. Augment Controllers and other augment personnel will be sourced from the OSE as required. The TTECG staff will:

(a) Develop exercise scenarios and intelligence input.

(b) Attend the CDC and assist with exercise planning.

(c) Organize the controllers/augmentation force, and conduct orientation and training to adequately monitor and critique all phases of the exercise.

(d) Conduct/coordinate pre-exercise training for each MAGTF.

(11) Establish and maintain targetry that facilitates integration of intelligence, aviation, combat engineering, indirect and direct fires in consonance with maneuver.

(12) Designate an EAO to serve as liaison for personnel and CSS matters between MAGTF/TC and the OCE throughout planning, execution and post-exercise reporting.

(13) Manage and allocate the CCAX Fund budget.

(14) As contained in reference (a), provide Class V(W) and recommended Class V(A) packages to the OCE at the CDC.

(15) Provide SEP from the EEAP for MAGTF utilization during the CAX.

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(16) Assist the MAGTF in requesting the appropriate ranges at MAGTFTC for their respective CAX/unit training.

(17) Provide the OCE with a list of exercise augmentation requirements, exercise controllers and other personnel/equipment requirements to support the TTECG. All requirements will be identified at the CDC for inclusion in the Exercise Directive (EXDIR) published by the OSE or designated representative.

(18) Establish garrison mobile equipment (GME) CAX package strictly for use by the MAGTF for pre-CAX and post-CAX requirements.

c. The OSE will:

(1) Designate forces, organized as a MAGTF, to participate in the CAX.

(2) Designate the OCE to act as a single POC with the MAGTFTC for exercise planning and activities.

(3) Host a CDC approximately 180 days prior to the exercise.

(4) Budget and make arrangements for the transportation of personnel (TOP) and things (TOT) to and from the CAX.

(5) Receive a fiscal after action report (AAR), based on SABRS accounting data, from the OCE no later than 60 days after the completion of the CAX.

(6) Publish the EXDIR and forward a copy to CG MCCDC (C41), CG TECOM (C472), and CG MAGTFTC (O&T/I&L/COMPT/TTECG).

(a) The EXDIR will include:

1 Designation and composition of the MAGTF.

2 Special training goals.

3 Required TTECG, ESD and other augmentation personnel and equipment.

4 Command relationships.

5 Fiscal responsibilities.

6 Other special instructions.

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(b) The active component EXDIR should be published not later than 75 days prior to exercise commencement. Due to the limited number of reserve component training days available each year, the reserve component EXDIR should be published at least six months prior to exercise commencement.

(7) Provide personnel and equipment for the following exercise support functions:

(a) Logistics support personnel.

(b) TTECG communications personnel and equipment augmentation.

(c) Strategic Expeditionary Landing Facility (SELF) 3-11 augmentation personnel and equipment.

(d) CAX equipment augmentation beyond that equipment provided in the SEP and the GME CAX package.

d. The OCE will:

(1) Upon receipt of the EXDIR, the commands concerned will publish activation directives and operation orders, as appropriate. The OCE and subordinate commanders will publish operations orders, as required.

(2) Ensure an appropriately staffed headquarters is maintained to accomplish the following functions:

(a) Exercise supervisory authority over all CAX and unit-sponsored training.

(b) Submit all CAX related training schedules to the MAGTFTC (O&T) range scheduling office. To allow for schedule deconfliction, all pre-FINEX requests must be submitted at least 45 days prior to the arrival of the Exercise Force and the first day of training of the dual CAX. If the schedule is submitted less than 45 days, the CAX Exercise Force no longer retains priority, with the exception of the 400 series ranges. Once a CAX evolution has begun, all requests must be forwarded through the exercise controller.

(c) Establish a field ammunition supply point (ASP).

(d) Exercise tactical planning and control over all elements in the execution of the FINEX.

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(3) Assign a MAGTF Safety Officer prior to the publishing of the EXDIR to supervise and institutionalize safety throughout CAX planning and execution.

(4) Review the SEP when determining unit deployment list (UDL) requirements. If a required item is not available from the EEAP (not listed on the SEP), it's the Exercise Force's responsibility to provide it. Aviation ground support equipment will be Exercise Force provided.

(5) Review the Class V(W) allowances and recommended Class V(A) packages provided by the TTECG at the CDC. Class V(W) requirements over and above established CAX packages and all Class V(A) will be provided from the MAGTF's annual training allocations.

(6) Ensure consumable supply support is identified, ordered, and provided for all exercise participants, to include the TEC. The required consumables will be drawn through the CSSE that supports the exercise. Consumable supply and rental equipment requirements, to include funding appropriation data, will be submitted via message to the CG MAGTFTC (O&T/I&L/COMPT/CMA).

(7) Provide traffic management support for passengers and equipment deployment/redeployment to MAGTFTC. The Logistic Movement Control Center (LMCC), embarkation officer or designated advance/rear party embarkation members will coordinate support including emergency leave arrangements as required.

(8) Establish a LMCC for embarkation/debarkation coordinating. The LMCC will ensure:

(a) Advance control parties are available at least 24 hours prior to the arrival of the main body's inbound equipment, supplies, weapons, or passengers. Inbound equipment must not arrive prior to advance party arrival.

(b) Inbound schedules for equipment and passengers are passed to CG MAGTFTC (TMO) as they become known.

(c) Redeployment transportation requirements are provided to the CG MAGTFTC (TMO) at a minimum of 10 days prior to the movement date. Appropriation data to fund for this movement must accompany the transportation request.

(d) Advance and rear party personnel are responsible for coordinating material handling equipment (MHE) support and conducting equipment and supply on loads and offloads to include

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subsistence and packaged operational rations (POR). All equipment operators must have the appropriate MHE licenses.

(9) Accept equipment from EEAP on a temploan basis. After the termination of the exercise, ensure that sufficient personnel remain behind to clean equipment, conduct a limited technical inspection (LTI), and install available repair parts prior to departing. This requirement is also applicable to MARFORRES.

e. The CO MWSS-374 is appointed by CG 3d MAW as the responsible officer (RO) for the SELF 3-11 MAGTFTC, Twentynine Palms, California. The CG 3d MAW will exercise OPCON of the SELF 3-11 through the CO MWSS-374. The concept of aviation support for combined arms training will be conducted as outlined in enclosure (3).

14. Safety

a. Safety is the responsibility of the MAGTF Commander. All Commanders are required to integrate operational risk management (ORM) into all phases of CAX planning and implementation. Reference (b) provides guidance for commanders to follow for developing an ORM program. Ground ordnance safety and the criteria for minimum safe separation distances are contained in the MAGTFTC safety regulations and reference (c).

b. Expenditure of live ordnance will be done in accordance with local range safety regulations and specific exercise instructions as developed and promulgated by the CG MAGTFTC and reference (c).

15. Environmental Protection. All training will be conducted per reference (d), ensuring environmental compliance. State and local regulations, as well as local policies unique to MAGTFTC, will be adhered to.

16. Combat Service Support. CSS for combined arms training at MAGTFTC will be conducted as outlined in enclosure (4).

17. Reporting Procedures

a. MAGTF elements will report for planning and exercise control to the OCE on dates determined by the OSE in the EXDIR.

b. Personnel assigned to augment the TTECG for exercise support will report to the exercise force prior to reporting to the TEC upon arrival at the MAGTFTC. All augment personnel will be OPCON to the TEC upon arrival at the MAGTFTC.

18. Reports. The following reports are required:

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a. Semi-annual Trend Report (Report Control Symbol MC-3500-11). Prepared by the CG MAGTFTC. When the report identifies operational deficiencies, a Universal Needs Statement (UNS) for each deficiency, per references (e) and (f), will be enclosed. The report will be submitted to "Distribution" which includes CG MCCDC (C41), CG TECOM (C472), the OSEs and major subordinate commands within 30 days after the end of the assessed semi-annual period.

b. Unit Deployment Report (UDR) and Situation Reports (SitReps). An information copy of the UDR and all SitReps will be submitted to CG MCCDC (C41).

c. Lessons Learned. Submitted by CG MAGTFTC and the Exercise Force MARFOR to CG MCCDC (C41), using the Windows Joint Instructional Input Program (WINJIIP) for input into MCLLS.

d. FY CAX Cost Report. Submitted by CG MAGTFTC to CMC (RFO) and CG TECOM (C 472) by 30 September each fiscal year. This report will aid in capturing the fiscal year costs of conducting the CAX Program.

e. Dual CAX Costs Report. Submitted by the dual CAX Exercise Force MARFOR to CG MAGTFTC CCAX Budget Section no later than 60 days after the conclusion of the dual CAX. Enclosure (4) and appendix A refers.

f. Ammunition Expenditure Report. Submitted by the dual CAX Exercise Force MARFOR to CG MAGTFTC (TTECG) within 48 hours of completion of each dual CAX.

19. Hosting Foreign Services. CAX's integrating maneuver and live fires requires a regimented training medium with an extremely ambitious schedule and structured sequence of events. This environment does not facilitate combined force training. Therefore, the CAX Program primarily endorses foreign participation in the form of observership. However, strategic alliances and objectives may necessitate a more active role for foreign participants. Regardless, if a foreign service's role is observership or active participation the following procedures must be adhered to:

a. Foreign participation in the CAX Program is the result of an agreement between CG TECOM (C 466) and the foreign service. This agreement may be in the form of a Memorandum of Understanding or as a consequence of service-to-service staff talks. The foreign service will be assigned to the participating OSE after CINC approval and completion of a feasibility study.

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CINC approval will be provided via the OSE that is responsible for the theater of engagement of the requesting nation.

b. Unless there has been a reciprocal training agreement, the participating country bears 100 percent of its CAX participation cost. However, a waiver may be granted by the SECDEF for developing countries pursuant to title 10 U.S.C. section 2010 (contact appropriate fiscal agencies for additional funding support if required). The hosting MARFOR is required to submit a cost estimate during the feasibility study. MAGTFTC and the MARFOR will capture all costs during the CAX. Shortfalls in funding will be billed to the participating nation through the appropriate fiscal agencies.

c. Integration planning is the responsibility of the OSE. All planning will be coordinated with the participating country's point of contact, which will be provided by CMC (PLU).

d. One copy of the AAR will be submitted by the hosting OSE to CMC (PLU).

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By direction

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CAX PROGRAM TRAINING GOALS

1. The CAX Program Training Goals is a guideline of objectives that Exercise Forces should seek to accomplish during their respective CAX. These goals are based on evaluation criteria as prescribed within reference (g) and the MAGTF competencies as outlined in paragraph 8 of the basic Order. The training goals of the four elements of the MAGTF are as follows:

a. Comand Element (CE). The CE will integrate and synchronize all capabilities within the MAGTF to execute offensive and defensive combat operations, while exercising effective command and control and sustaining the force. Additionally, the CE will implement the MAGTF commander's intent and focus to accomplish assigned tasks, achieving his stated objectives, and shaping the battle-space beyond the zone of the GCE. Further, facilitate and support major subordinate commands in the execution of their assigned combat tasks in order to achieve the following goals:

(1) Accept an assigned mission from higher headquarters, develop a comprehensive plan, to include sustaining the force, and exercise effective C2 ensuring tactical success on the battlefield.

(2) Gather and analyze information, make decisions, organize resources, plan, communicate instructions, coordinate and supervise execution, and monitor the results of MAGTF operations.

(3) Detect, deliver, and assess methodology, conduct targeting, intelligence and electronic warfare (EW) operations with organic MAGTF capabilities in support of the tactical scheme of maneuver in an assigned area of responsibility.

(4) Develop essential fire support tasks concurrently with the development of the MAGTF's capabilities supporting the scheme of maneuver. Coordinate the execution of these tasks while minimizing the risk of fratricide through rehearsals and doctrinal integration and deconfliction techniques.

(5) As a result of the intelligence planning brief, and staff planning process, conduct intelligence and EW operations within organic MAGTF intelligence capabilities in support of the

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tactical scheme of maneuver.

b. Ground Combat Element (GCE). The GCE will plan, integrate, and synchronize the execution of assigned task; conduct operations in the execution of the MAGTF commander's plan; and conduct supporting operations within the MAGTF including coordination laterally and vertically, in order to achieve the following goals:

(1) Plan, rehearse and execute schemes of maneuver consistent with assigned tactical missions by integrating and employing all components of fires, direct, indirect, aviation and non-lethal.

(2) Provide timely, accurate and continuous fires in support of the MAGTF and GCE schemes of maneuver.

(3) Ensure comprehensive logistics planning, sustainment of the GCE during the execution of tactical operations.

c. Aviation Combat Element (ACE). The ACE will plan, integrate, and synchronize the execution of assigned task; conduct operations in the execution of the MAGTF commander's plan; and conduct supporting operations within the MAGTF including coordination laterally and vertically, in order to achieve the following goals:

(1) Plan, develop and manage an Air Tasking Order (ATO) and ACE operations order based on the CE tasks and GCE/CSSE requirements in support of the MAGTF concept of operations.

(2) Employ an ACE battle staff and Marine Aviation Command and Control (MACCS) to ensure the effective use, coordination and employment of aviation assets as required by the MAGTF CE for current and future combat operations, including integration of ground based air defense.

d. Combat Service Support Element (CSSE). The CSSE will plan, integrate, and synchronize the execution of assigned task; conduct operations in the execution of the MAGTF commander's plan; and conduct supporting operations within the MAGTF including coordination laterally and vertically, in order to achieve the following goals:

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(1) Plan, rehearse and execute CSS schemes of maneuver consistent with the assigned tactical missions by operating forward in the field, to ensure the sustainment of the MAGTF under mid to high intensity tactical circumstances.

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TRAINING METHOD, LEVEL, FREQUENCY AND CRITIQUE

1. The CAX Program is designed to exercise a MAGTF organized around a reinforced infantry battalion. This purpose is to maximize the application of supporting arms in consonance with maneuver.

2. The annual CAX Program participation level is as follows:

a. Participating units:

(1) MARFORLANT: Four CAX's per year, one maneuver battalion per CAX with supporting organizations and attachments.

(2) MARFORPAC: Four CAX's per year, one maneuver battalion per CAX with supporting organizations and attachments.

(3) MARFORRES: Two CAX's per year, one maneuver battalion per CAX with supporting organizations and attachments.

b. Requests to deviate from the participation level described herein will be submitted for approval to CG TECOM (C472) when fiscal and material limitations or operational tempo of MARFOR units do not permit maximum deployment or participation by scheduled battalions.

c. Other Marine Corps and/or joint service use of the Training Center may be accommodated within MAGTF's capability to support the annual CAX Program, and in consideration of the limitations described in the above subparagraph.

3. The exercise will be developed by CG MAGTF's within the guidelines of current doctrine in order to allow the MAGTF to evaluate its level of training. Additionally, CG MAGTF's will critique all aspects of the exercise and MAGTF. The critique will be objective and based on the ability of the MAGTF to accomplish training goals stated in this Order and those that are agreed upon at the CDC. Critique is an ongoing process through all training evolutions and is a frank exchange between the MAGTF and the TTECG discussing effective, innovative techniques and procedures. The final critique will be briefed to the MAGTF Commander upon conclusion of the exercise.

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4. Unit training conducted during CAX must be oriented on mastering those techniques and procedures specified in this Order and by CG MAGTFTC. Any unit training that conflicts or detracts from the goals stated in the Order and/or with TTECG directed training must be relegated to a lower priority and fully deconflicted.

5. Marine Corps Combat Readiness Evaluation System (MCCRES) evaluations will not be conducted unless specifically approved by CG MAGTFTC. There is a potential imbalance between evaluation and training, which could have significant impact on the safe attainment of CAX training objectives. In general, CAX is not an appropriate medium for conduct of a MCCRE, or any other evaluation. If the CG MAGTFTC has approved the MCCRE, it will be conducted non-obtrusively to the CAX.

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CONCEPT AND CONDUCT OF AVIATION SUPPORT

1. Purpose. To define the structure and conduct of support of the Aviation Combat Element supporting a CAX.

2. Concept. The ACE will be structured to provide the capabilities of Marine aviation in support of the MAGTF. All aircraft and support assets comprising the ACE will deploy to, operate from, and support the CAX from the MAGTF/TC SELF 3-11. Recognizing that extenuating circumstances may occur, the necessity for aircraft to operate from a locale(s) other than the SELF 3-11 may be addressed at the CDC. Approval to operate from locales other than the SELF 3-11 will be authorized by CG TECOM.

3. Tasks

a. The ACE will possess sufficient assets to perform the doctrinal functions of Marine aviation as listed below:

(1) Control of Aircraft and Missiles

- (a) Tactical Air Command Center.
- (b) Direct Air Support Center.
- (c) Tactical Air Coordinator (Airborne).
- (d) Forward Air Controller (Airborne).
- (e) Helicopter Coordinator (Airborne).

(2) Offensive Air Support

- (a) Close Air Support.
- (b) Close in Fire Support.

(3) Anti-air Warfare - Air Defense. Low Altitude Air Defense.

(4) Assault Support

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- (a) Vertical Assault Aircraft.
- (b) Air Delivery - optional.
- (c) Air Medical Evacuation (MEDEVAC).
- (d) Aerial Refueling - as required.
- (e) Tactical Recovery of Aircraft and Personnel.
- (f) Forward Arming and Refueling Point Operations.
- (g) Air Logistics Support - as required.
- (h) Battlefield Illumination - as required.

(5) Air Reconnaissance. Imagery Reconnaissance - including, when possible, joint and other service assets.

(6) Electronic Warfare. Electronic Protection.

b. The ACE will provide the following administrative/logistical support to the TTECG and the CAX MAGTF:

(1) Twenty-four hour MEDEVAC capability.

(2) Movement of CAX-related support personnel or essential TTECG personnel.

(3) Resupply of TTECG observation posts.

(4) Augmentation of the SELF 3-11 - as required.

4. Conduct. The ACE can be provided by the CG 1st, 2d, 3d and 4th MAWs. The ACE will be task organized with units of different commands and may be augmented from other service units. However, the ACE commander will be designated from an aviation component of that particular CAX's OSE.

a. The ACE will provide sufficient aircraft to fulfill the sortie requirements as identified by CG MAGTF. Sorties excess of MAGTF and CAX requirements may be requested for ACE opportune training. Actual numbers of aircraft necessary to support the CAX will be confirmed at the CDC. The following

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aviation detachments considered essential to support the objectives of a single maneuver battalion CAX.

- (1) Det VMA/VMFA and/or VMFA and/or VMFA/(AW).
- (2) Det HMM.
- (3) Det HMH.
- (4) Det HMLA.
- (5) Det VMGR.

b. The following additional aviation support elements are considered appropriate in order to support the objectives of a CAX:

- (1) Det MALS.
- (2) Det MWSS.
- (3) Det MACG.
 - (a) Det MTACS (TACC).
 - (b) Det LAAD Battalion.
 - (c) Det MASS.
 - (d) Det MWCS.
 - (e) Det MACS.

c. The OSE may request to CG MAGTFTC the modification of sortie requirements in order to eliminate conflicts between operational tempo limitations or to meet the training goals of a specific CAX. Changes in sortie requirements, however, should not dilute the overall capability to support the CAX MAGTF.

5. Strategic Expeditionary Landing Field 3-11. MWSS-374 personnel, permanently stationed at MAGTFTC, man the SELF 3-11. MWSS-374 is task organized to conduct flight operations during normal working hours (0800-1600 Monday through Friday). MWSS-374

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retains OPCON of the SELF 3-11 during CAX.

a. MWSS-374 is organized to conduct air traffic control for ACE units at SELF 3-11. It is tasked with providing the following services and functions to the ACE:

- (1) Weather Services.
- (2) Expeditionary airfield services to include:
 - (a) M-21 aircraft recovery arrestment equipment.
 - (b) Airfield lighting.
- (3) Aircraft rescue and fire fighting.
- (4) Aircraft ground refueling (hot and cold).
- (5) Ground support equipment refueling internal to the SELF.
- (6) Essential engineer services internal to the SELF.
 - (a) Mobile electric power to support airfield operations.
 - (b) MHE to support airfield operations.
- (7) Air traffic control.
- (8) Flight clearance services.
- (9) Limited aviation weapons support and ground support equipment.

b. The ACE is tasked to provide augmentation support to SELF 3-11 for each CAX as listed in appendix A to this enclosure. Personnel assigned will be OPCON to MWSS-374. The ACE CO will coordinate with the airfield operations officer if assigning additional duties to these personnel.

c. The ACE will provide sufficient numbers of augment personnel to support extended CAX operating hours. Personnel will report to the MWSS-374 airfield operations officer no later

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than five working days prior to the start of the CAX. These personnel will billet and mess with the ACE at Camp Wilson. Augment personnel assigned will be OPCON to MWSS-374. The ACE Commanding Officer will coordinate with MWSS-374 airfield operations officer if assigning additional duties to augment personnel.

6. Aviation Safety. The ACE aviation safety officer (ASO) will ensure ORM is practiced during all aviation-related matters at all levels.

7. Aviation Supply Support Concept (ASSC). The ACE will prescribe the conduct of and demonstrate the capability to provide aviation supply support while supporting the aviation requirements of the CAX.

8. Aviation Supply Detachment (ASD). The ASD will consist of augments from the Marine Aviation Logistics Squadron (MALs) supporting the Exercise Force for each respective CAX. Upon arrival at MAGTF TC SELF 3-11, the MALs augments and pack-ups will consolidate and become a combined ASD in order to support all squadrons supporting the CAX. The ASD will coordinate with parent MALs for not in stock/not carried (NIS/NC) components and replenishments.

(a) Each ASD will:

(1) Maintain accountability for all components.

(2) Establish a schedule of Marine Logistics (MARLOG) runs for pickup/delivery between the parent MALs and the ASD.

(3) Upon CAX completion, conduct pack-up inventories and stage materials for transport back to parent MALs.

(b) Each MALs will:

(1) Provide augments and pack-ups sufficient to support their aircraft.

(2) Pass requisitions for the ASD into the supply system.

(3) Each respective Wing Aviation Logistics Division will provide command assistance upon request from the parent MALs.

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(4) The individual squadrons will control pre-expended bin materials and replenishments will be requested via the ASD.

9. Common Aviation Support Equipment. The CO MWSS-374 maintains a limited pool of aviation support and ground support squadron equipment at the SELF 3-11. The ACE Commander must make liaison with the CO MWSS-374 and CG 3d MAW for exercise support requirements. All message traffic should info the appropriate chain of command: CG 3D MAW, MWSS THREE SEVEN FOUR.

10. Coordinating Instructions. The ACE supporting a CAX may be required to coordinate widely separated assets during the planning phase. For this reason, it is imperative that the ACE is designated and subordinate units identified prior to the CDC. The ACE is authorized to make direct liaison with the CO MWSS-374 to determine personnel and equipment requirements necessary to support squadron and SELF 3-11 operations and services.

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CONCEPT AND CONDUCT OF COMBAT SERVICE SUPPORT (CSS)

1. Purpose. To provide guidance, operating procedures, methods, coordination, and reporting instructions for the conduct of CSS for the CAX forces.

2. Concept of CSS Organization. CAX CSSE's, as organized by their respective OSE's, will be organized to provide the following functions:

- a. Command and Control.
- b. Supply.
- c. Maintenance.
- d. Transportation.
- e. Engineering.
- f. Health Services.
- g. Chaplain Services.
- h. Rear Area Security.
- i. Handle Hazardous Material.

3. Conduct. Units conducting training at the MAGTFTC are expected to provide for their own CSS insofar as possible. Each OSE (COMMARFORLANT, COMMARFORPAC, or COMMARFORRES) will provide CSS personnel deemed necessary to man the CSSE to support their respective CAX. It is recognized, however, that the ability of the Exercise Force to provide all required major items of equipment and the full spectrum of CSS is constrained by the impracticality of transporting necessary supplies and equipment to and from the MAGTFTC. Accordingly, the concept of CSS includes:

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a. Use of ESD EEAP equipment as the Exercise Force's first source of equipment.

b. Use of 1st-4th echelons of repair parts and secondary reparables will be made available on a reimbursable basis by CG 1st FSSG to all units conducting training.

c. Provisions for limited maintenance support by the CO CSSG-1 for tasks beyond the capability of the CSSE supporting the Exercise Force. Such tasks are to be accomplished on a normal priority and commensurate with local capabilities and workload.

d. Equipment loaned from the EEAP or any organization outside of the organization conducting the CAX, will be subject to a joint limited technical inspection (LTI) by the borrowing and owning unit prior to each exercise in order to determine current status of supply completeness and maintenance condition. Upon conclusion of the exercise, equipment will be cleaned and all 1st and 2nd echelon preventive maintenance completed. Equipment will be returned from the borrowing unit with a joint LTI completed. The borrowing unit will be charged for loss, damage, maintenance, extraordinary wear and tear to equipment and loss or damage to collateral equipment.

e. EEAP equipment and equipment borrowed from other MARFOR units that cannot be repaired during the exercise timeframe, will be returned to the EEAP or owning unit with the repairs incomplete. In such cases, the ESD or owning unit will bill the borrowing unit for the completion of repairs. Equipment borrowed from I MEF by outside organizations will be subject to a 19.8% surcharge above the cost of repairs. The return of equipment to the EEAP or owning unit with repair work still pending should be considered an exception, not the rule. The borrowing unit or the Exercise Force CSSE will make every reasonable effort to complete required repairs prior to return of equipment to the EEAP or owning unit.

f. COMMARFORRES will consolidate and review equipment requirements for all reserve component's two week AT exercises. COMMARFORRES will request and coordinate augmentation of equipment, as required.

4. MAGTFTC ESD. The ESD was established as part of the Marine Corps Force Structure to provide the CG MAGTFTC with an EEAP for

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use by units participating in CAX. The equipment included in the ESD EEAP are those items that would be too costly to move to the MAGTFTC with the Exercise Force. The ESD is not intended to self sustain units conducting a CAX or to be capable of providing aviation unique equipment to the Exercise Force. Such aviation unique equipment if deemed essential to maintain full mission capable aircraft will be requested by the OCE from the OSE.

a. EEAP Usage. The EEAP (T/E 7711) is intended for use by MARFOR units participating in CAX and MAGTFTC organizations supporting the CAX Program. The one exception is support of the reserve annual two week AT exercise.

b. Equipment Maintenance. The CG MAGTFTC will execute responsibilities for maintenance management of EEAP equipment assets through personnel authorized by T/O 7711.

c. Equipment Levels. In order to prevent degrading I MEF readiness through extensive use of its equipment by non I MEF exercise units, it is intended that the EEAP contain sufficient equipment (less maintenance intensive equipment and aviation unique items) to accommodate the needs of the exercise MAGTF.

d. Changes to the EEAP. Recommendations for changes to T/O&E 7711 will be submitted as follows:

(1) Administrative format per NAVMC 11355 (1-98), T/O&E Change Request per reference (h).

(2) Submit NAVMC 11355 (1-98) recommended change(s) to CG MAGTFTC (O&T/I&L). CG MAGTFTC (O&T/I&L) will coordinate with the CO CSSG-1 as to the impact on personnel, maintenance capability, facilities, and funding necessitated by the proposed change.

(3) After review and endorsement, the recommendations will then be forwarded to CG MCCDC Total Force Structure (C53) via CG TECOM (C472) by CG MAGTFTC.

5. Planning Considerations

a. CAX CSS requirements will be identified by major commands within the timeframe established in the MAGTFTC SOP. Equipment augmentation requirements for Reserve components will be determined during the AT conference. After determination of CSS

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requirements, CSS planning should be conducted on a continuing and parallel basis between the CSSE designated to provide CSS to the MAGTFTC and the OCE.

b. TTECG will submit its CSS requirements for the exercise to the designated OCE at least 70 days prior to the start of the exercise.

c. Requests for support from the MAGTFTC will be submitted to CG MAGTFTC (O&T/I&L) by the appropriate OCE in sufficient time to meet deadlines established by the MAGTFTC SOP.

d. Supporting organizations of the MAGTFTC will confirm their ability to provide support to the requesting Exercise Force NLT 30 days after the request is received by the MAGTFTC.

6. Organizational Tasks

a. CG MAGTFTC. Will provide the following functions:

(1) Facilities for administration and logistics support.

(2) SEP.

(3) Intermediate maintenance and when resources permit overflow organizational maintenance.

(4) Bath and laundry.

(5) Billeting (advance and rear parties, controller and evaluator augmentation, and search and rescue (SAR) crew).

(6) Messing (advance and rear parties, controller and evaluator augmentation).

(7) Pre-positioning of rations (advance parties).

(8) Pre-positioning of ammunition (advance parties).

(9) Storage of packaged POL.

(10) Targets, training devices, and audiovisual support.

(11) Explosive ordnance disposal support (augmented by Exercise Force).

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(12) Pre-positioning of bulk fuel (advance parties).

(13) Pre-positioning of miscellaneous Class II supplies as requested by the EF.

(14) Purchasing and contracting services.

(15) Southwest Fleet Regional Transportation (SWFRT) CAX package.

(16) All hazardous material/waste storage and disposal.

(17) Recycling Management.

(18) Hospital services.

(19) Financial management service.

b. MWSS-374. Aviation support, ground support equipment as it pertains to the operations of the SELF 3-11.

c. OSE/OCE. The CSSE will establish a Combat Service Support Area (CSSA) to provide CSS to the MAGTF as directed by the OCE.

7. Supporting Procedures

a. CG MAGTFTC will provide written instructions for requesting CSS. All JP-5/8 fuel for CAX including pre-CAX requirements will be pre-staged at the SELF 3-11. There is no requirement for advance notification prior to deploying to MAGTFTC. However, upon arrival, the OCE or his designated representative must notify the MWSS-374 Fuels Officer of the ACE's estimated usage during the dual CAX.

b. The designated CSSE and MWSS will be the primary sources of CSS during the exercise. All requests for support will be directed to these organizations.

c. Required rations, fuel, ammunition and other requested supplies will be pre-positioned at the MAGTFTC. Upon arrival, the CSSE will establish a CSSA. It will transfer assets from the dumps, at a pre-designated time, to the CSSA and to the supported units, as required. Requisitions will be made within the following time frames:

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(1) Ninety days for Class V(A) and 45 days for Class V(W) if the desired quantity exceeds established CAX allocation or the Marine Ammunition Requirement Support Order (MARSO) forecast.

(2) Ninety days advance notification by message for Unitized "B" Rations (UBRs), Meal Modular Tray Packs (MMTPs), Packaged Operational Rations (PORs), UHT milk and "A" Ration enhancement (dollar value only).

(3) Sixty days advance notification for bill of material (BOM) (includes administrative, housekeeping, packaged POL, and limited construction items), and bulk fuel requirements.

(4) Thirty days advance notification with appropriation data for portaheads, photocopiers, ice/refrigerator trucks, dumpsters and all contracts with a completed DD Form 1149 (Requisition and Invoice/Shipping Document).

(5) Sixty days advance notification with a completed DD Form 1149 for leased commercial vehicles beyond SWFRT's CAX package.

d. Reserve component maintenance units will be scheduled for AT after all MARFORRES exercises. Equipment which cannot be repaired during the AT timeframe may be returned in "as is" condition, providing a proper joint LTI is conducted, the equipment has been cleaned, and all 1st and 2nd echelon preventive maintenance has been completed.

e. The CG MAGTFTC will establish procedures to ensure supply accountability and proper custodial procedures during turnover of supply blocks and equipment. The OCE will assign a RO for the equipment and supply blocks. One RO can be assigned for both accounts.

f. The OCE is responsible to ensure that advance parties arrive and rear parties remain at MAGTFTC with sufficient time and qualified technical personnel to conduct effective, quality joint LTI's when drawing and returning equipment from all issuing organizations. The OCE must ensure that equipment is not abused. The OCE must also ensure that a progressive, quality maintenance program is established and conducted during the course of CAX training.

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8. Funding Procedures. All CAX specific costs and CCAX funding ceilings, including pre-CAX and post-CAX activities, will be budgeted and funded by the OSE (COMMARFORLANT, COMMARFORPAC, COMMARFORRES). CAX budget estimates will be submitted to CMC (RFO) as part of the OSE's training operations budget submission. Separate reimbursables will be submitted to 1st FSSG for all 1st and 2nd echelon maintenance requirements and MAGTFTC for all other CAX requirements (figure 1).

a. Centralized CAX (CCAX) Fund. The CCAX Fund was established to support the EEAP and 10 annual standard CAX's. The portion of the fund that supports MARFORPAC EEAP operations is provided by CG TECOM through HQMC centrally managed program funds. The portion of the fund that supports unit CAX requirements (i.e., 1st-2nd echelon maintenance BOMs, POL, and consumable supply BOM), is funded directly by the Exercise Force prior to their dual CAX. Exercise Force funds are customized based on historical data accumulated by MAGTFTC and the Exercise Force, (figure 1).

b. Exercise Force Fund. The Exercise Force will reimburse CG MAGTFTC for those supplies and services provided before, during and after the dual CAX, which are beyond the scope of a standard CAX and the CCAX fund, (figure 1).

c. GME Lease Cost. The annual cost to lease the GME package from the General Service Administration will be divided accordingly (40 percent for MARFORLANT and MARFORPAC and 20 percent for MARFORRES) and provided to MCAGCC at the start of the fiscal year.

d. Ceilings. CAX funding ceilings will be customized for each MARFOR based on historical data and input from the MARFORs.

e. Dual CAX Costs. All costs to conduct the CAX (including all aviation costs, TOT, TOP, and post CAX maintenance on organic and temp loaned equipment, to include MWSS-374 equipment, etc.) will be reported to CG MAGTFTC CCAX Budget section by the MARFOR's no later than 60 days after the conclusions of the dual CAX. This will aid in capturing the total FY costs of conducting the CAX Program. Each OSE will utilize the worksheet in appendix A to submit this report.

f. The OSE will reimburse the CG MAGTFTC for costs to repair or restore EEAP issued equipment to their pre-loaned

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CAX FUNDING

<u>CENTRALIZED CAX FUNDED</u>	<u>EXERCISE FORCE FUNDED</u>
<u>HQMC/MCAGCC FUNDS</u> 1 st -4 th echelon Secreps POL, MREs and Food Services <u>OSE Funds</u> All BOMs, GME CAX package lease/usage, HAZMAT disposal, All contracts, medical supply, SEDL and EEAP post-CAX 1-2	SL-3 Losses Commercial telephone, ADP Negligence, TOT/TOP, Special Services, General Supply, tools, tents, laundry TAD, Aviation Blue dollars

Figure 1. --CAX Funding.

condition, less ordinary wear and tear, as well as, any additional incurred CAX support requirements. This includes pre-CAX and post-CAX activities and equipment necessary to augment the CSSE and MWSS elements.

g. Reserve Component Support. COMMARFORRES will budget and fund for reserve component units participating in CAX's. Supplies and services requested from CG MAGTFTC will require reimbursement from COMMARFORRES operating budget authorizations. Reimbursable documents will be submitted to the CG MAGTFTC (Compt) directly by COMMARFORRES, as appropriate.

h. Base Operating Support. The CG MAGTFTC will budget and fund for all common service base operating support, to include TTECG operations and ESD operations. The Exercise Force will reimburse MAGTFTC for all CAX related base operations support at the ESB. Examples of this reimbursable support include, but are not limited to, automated data processing, special service supplies, commercial vehicles in excess of the SWFRT CAX package, bachelor housing services, reproduction support, and other purchased services such as commercial telephone lines.

(1) Operation and Maintenance of the ESD. The following guidelines apply to the operation and maintenance of the ESD:

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(a) Supply and maintenance support required by the ESD for the EEAP will be provided by CO CSSG-1. The CG MAGTFTC will reimburse CG 1st FSSG for the supply and maintenance support of the EEAP rendered by the CO CSSG-1. The suggested method of requesting reimbursement is by NAVCOMPT Form 2275. The CG 1st FSSG should establish a Financial Information Pointer for all ESD supply and maintenance support.

(b) OSE's (COMMARFORLANT, COMMARFORPAC, or COMMARFORRES) will coordinate with the CG MAGTFTC (Compt) to establish reimbursable documents as soon as possible after the beginning of the fiscal year. Early establishment of reimbursable documents allows timely obligation of funds, and provides CG MAGTFTC functional managers the lead-time to ensure all necessary support and materials are available on a timely basis.

(2) Facilities and Ranges. The CG MAGTFTC is responsible for budgeting for costs to restore to prior use condition, any facility or range used under conditions of normal wear and tear for CAX purposes. However, excessive damage or restoration costs attributed to negligence, and which limits the capability of the training range or facility until repaired, will be reimbursed to the CG MAGTFTC by the OSE. This includes, but is not limited to; post-exercise range cleanup costs, repair and replacement of targets, and associated devices and facilities used in support of the exercise.

(3) Hazardous Waste. The Exercise Force will fund for the disposal of all hazardous waste accumulated throughout all CAX training. Costs for disposal will be submitted on NAVCOMPT Form 2275 (Order for Work or Services) to CG MAGTFTC (Compt) upon completion of each CAX.

(4) Garrison Mobile Equipment (GME). GME is available as a CAX package from SWFRT. This package consists of leased GSA equipment that has been staged at MAGTFTC exclusively for the CAX forces. The annual lease cost for this package will be provided to CG MAGTFTC at the start of the fiscal year. All associated costs from mileage and damage by negligence are 100 percent reimbursable by the using Exercise Force and will be accessed to the dual CAX OCE. This package will be issued to a single RO for the dual exercises. It will be available throughout the duration of the exercise. Prior to issue, the designated RO will conduct

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a joint LTI with SWFRT. Upon termination of the exercise, a full accounting of all costs will be finalized. The package consists of the following equipment:

<u>VEHICLE TYPE</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
4500	Cherokee	2
4501	Van	14
4608	Suburban	3
4805	Pickup Truck	4
7220	3 Ton Stake bed (open bed)	2
7420	3 Ton Stake bed (enclosed)	1
4107	29 Pax Bus	2
4202	44 Pax Bus	2

9. Turnover of Supply Blocks/Equipment. CG MAGTFTC and CG 1st FSSG will establish procedures to ensure supply accountability and proper custodial procedures during turnover of supply blocks/equipment.

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